

2.3 Air inlet

The stove air inlet pipe or intake is located at the back and is round and 50 mm in diameter.

The combustion air can be sucked:

- ▶ from the room, provided there is a wall air inlet near the stove, communicating with the outside and of minimum area 100 cm² suitably protected externally by a grille;
- ▶ or with connection directly to the outside with a suitable pipe of inside diameter 50 mm and max. length 1.5 m.

2.4 Fume exhaust

Fumes can be exhausted through a connection to a conventional flue.



- *The installer must check the efficiency and state of the flue and its conformity with the local, national and European regulations.*
- *Certified pipes and connections with adequate seals guaranteeing their tightness must be used.*
- *In case of fire, shut down the stove, promptly call the fire department, and avoid continual attempts to extinguish it.*

2.4.1 Types of installation

Listed below are definitions and requirements for correct installation of an exhaust flue in accordance with Italian Standard UNI10683:

FLUE : a vertical duct for collecting and expelling, at an appropriate height from ground, the fumes coming from a single unit and, where permitted, more than than one.

FLUE technical requirements :- it must be fumetight, isolated and insulated depending on its use;

- it must have a mainly vertical path with axis deviation < 45°;
- it must be at a suitable distance from flammable materials with insulation or air gap;
- it must preferably have a constant, free and independent round internal section;
- it is advisable for the flue to have an inspectionable chamber for the collection of solid materials
- and any condensate, placed under the beginning of the fume duct.

FLUE CONNECTION or DUCT: duct or connection element between the unit and flue for evacuation of fumes.

DUCT technical requirements: - it must not cross rooms in which the installation of combustion units is not allowed;

- flexible metal tubes or fibre cement pipes are prohibited;
- the use of counter-sloping elements is prohibited;
- horizontal sections must have an upward slope of at least 3°;
- the length of the horizontal section must be minimal and not more than 3 m;
- there must not be more than 3 changes of direction, without the T union;
- with change of direction > 90° a max. of 2 bends can be used with length in horizontal projection not exceeding 2 m
- the fume duct must have a constant section and allow the recovery of soot.

CHIMNEY CAP: a device placed on the top of the flue to facilitate the dispersion of fumes into the atmosphere.

CHIMNEY CAP technical requirements : - it must have a section equivalent to that of the flue;

- it must have a useful section not less than double the internal section of the flue;
- it must prevent the entry of rain and foreign bodies and ensure the discharge of fumes in any atmospheric condition;
- it must ensure an adequate dilution of fumes and be positioned outside the backflow area;
- it must be without mechanical means of suction.



The direct discharge of fumes must take place on the roof and not towards closed spaces (even open air).

